

AMENDMENTS TO THE CLAIMS

Please cancel claims 52 and 53 without prejudice or disclaimer. Please amend claims 1, 39, 41, 42, 44, and 46-48 as shown in the PENDING CLAIMS section below. Please add claims 55-57 as shown in the PENDING CLAIMS section. Claims 30-38, 43, 45, 49-51, and 54 remain unchanged from the previous amendment. The PENDING CLAIMS section presents a detailed listing of all claims that are, or were, in the application, using status identifiers.

PENDING CLAIMS

C/ 1. (Currently Amended) A small footprint device comprising:

- a. at least one processing element;
- b. memory,
- c. a context barrier for isolating one program module from at least one other program module using said memory and processing element, said one program module and said at least one other program module configured to operate on said small footprint device; and
- d. an entry point object for permitting one program module to access one other program module across said context barrier.

[✓ 2 - 29. (Cancelled)

2 30. (Previously Added) The small footprint device of claim 1 in which said context barrier allocates separate name spaces for each program module.

3 31. (Previously Added) The small footprint device of claim ²30 in which at least two program modules can access said entry point object even though they are located in different respective name spaces.

4 32. (Previously Added) The small footprint device of claim 1 in which said context barrier allocates separate memory spaces for each program module.

5 ~~33~~⁴. (Previously Added) The small footprint device of claim ~~32~~⁴ in which at least two program modules can access said entry point object even though they are located in different respective memory spaces.

Cont
C1
6
~~34~~⁶. (Previously Added) The small footprint device of claim 1 in which said context barrier enforces security checks on at least one of a principal, an object and an action.

7
~~35~~⁶. (Previously Added) The small footprint device of claim ~~34~~⁶ in which at least one security check is based on partial name agreement between a principal and an object.

8
~~36~~⁷. (Previously Added) The small footprint device of claim ~~35~~⁷ in which at least one program can access said entry point object without said at least one security check.

9
~~37~~⁶. (Previously Added) The small footprint device of claim ~~34~~⁶ in which at least one security check is based on memory space agreement between a principal and an object.

10
~~38~~⁹. (Previously Added) The small footprint device of claim ~~37~~⁹ in which at least one program can access said entry point object without said at least one security check.

11 ~~39~~. (Currently Amended) A method of operating a small footprint device, comprising:
~~the step of~~ separating program modules using a context barrier, said program
modules configured to operate on said small footprint device; and
 permitting access to information across the context barrier using an entry point
 object.

12 ~~40~~. (Previously Added) The method of claim ¹¹~~39~~, in which the context barrier will not
 permit a principal to perform an action on an object unless both principal and object
 are part of the same context unless the request is for access to an entry point object.

13 ~~41~~. (Currently Amended) A method of permitting access to information on a small
 footprint device from a first program module to a second program module separated
 by a context barrier, comprising: ~~the step of~~
 creating entry point object which may be accessed by at least two program modules
configured to operate on said small footprint device; and
using said entry point object to permit access to information across the context
barrier.

14 ~~42~~. (Currently Amended) A computer program product, comprising:
 a. a memory medium; and
 b. a computer controlling element comprising instructions for implementing a
 context barrier on a small footprint device and for bypassing said context barrier

using an entry point object, said context barrier separating program modules configured to operate on said small footprint device.

¹⁵ ~~43~~. (Previously Added) The computer program product of claim ¹⁴ ~~42~~ in which said medium is a carrier wave.

Cont
C1

¹⁶ ~~44~~. (Currently Amended) A computer program product, comprising:

- a. a memory medium; and
- b. a computer controlling element comprising instructions for separating a plurality of programs configured to operate on a small footprint device by running them in respective contexts and for permitting one program to access information from another program by way of an entry point object.

¹⁷ ~~45~~. (Previously Added) The computer program product of claim ¹⁶ ~~44~~ in which said medium is a carrier wave.

¹⁸ ~~46~~. (Currently Amended) A carrier wave carrying instructions for implementing an entry point object for bypassing a context barrier on a small footprint device over a communications link, said context barrier separating program modules configured to operate on said small footprint device.

¹⁹ ~~47~~. (Currently Amended) A carrier wave carrying instructions over a communications link for separating a plurality of programs configured to operate on a small footprint

device by running them in respective contexts and for permitting one program to access information from another program using at least one entry point object.

Cont
Cl
2P 48. (Currently Amended) A method of transmitting code over a network, comprising ~~the~~ ~~step of~~ transmitting a block of code from a server, said block of code comprising instructions for implementing an entry point object for bypassing a context barrier on a small footprint device over a communications link, said context barrier separating program modules configured to operate on said small footprint device.

21 49. (Previously Added) The small footprint device of claim 1 in which said one other program module is a supercontext of said one program module.

22 50. (Previously Added) The small footprint device of claim 1 in which the processing element runs each program module as a separate context.

23 51. (Previously Added) The small footprint device of claim 1 in which at least one program module comprises a plurality of applets.

✓ 52. (Cancelled)

✓ 53. (Cancelled)

²⁴ ~~54~~. (Previously Added) The method of claim ¹² ~~40~~, in which, if a principal in a first context performs an action on an entry point object in a second context, when the action is performed it will execute within the second context.

²⁵ ~~55~~. (New) An apparatus for operating a small footprint device, comprising:
 means for separating program modules using a context barrier, said program modules configured to operate on said small footprint device; and
 means for permitting access to information across the context barrier using an entry point object.

²⁶ ~~56~~. (New) The apparatus of claim ²⁵ ~~55~~, in which the context barrier will not permit a principal to perform an action on an object unless both principal and object are part of the same context unless the request is for access to an entry point object.

²⁷ ~~57~~. (New) An apparatus for permitting access to information on a small footprint device from a first program module to a second program module separated by a context barrier, comprising:
 means for creating entry point object which may be accessed by at least two program modules configured to operate on said small footprint device; and
 means for using said entry point object to permit access to information across the context barrier.